If you are using a printed copy of this procedure, and not the on-screen version, then you <u>MUST</u> make sure the dates at the bottom of the printed copy and the on-screen version match.

The on-screen version of the Collider-Accelerator Department Procedure is the Official Version.

Hard copies of all signed, official, C-A Operating Procedures are kept on file in the C-A ESHQ

Training Office, Bldg. 911A.

C-A OPERATIONS PROCEDURES MANUAL

ATTACHMENT

4.120.22.h AGS Oxygen Deficiency Hazard (ODH) Tests

C-A-OPM Procedures in which this Attachment is used.				
4.120.22				

Hand Processed Changes

HPC No.	<u>Dat</u>	<u>e</u>	Page Nos.	<u>Initials</u>	
	Approved:		nature on File elerator Departmo	ont Chairman	 Date
		Comuci-Acc	eieraior Departin	THE CHAITHIAH	Date

V. Castillo

4.120.22.h AGS Oxygen Deficiency Hazard(ODH) Tests

PASS ANNUAL ACCEPTANCE TEST PROTOCOL

Division A Software Filename and Checksum: Title:	Checksum:	
Division B Software Filename and Checksum: Title:	Checksum:	
Tuitial tasting assurates		
<u>Initial testing complete</u> :		
Test Team Leader's Name (Print):	Life Number:	
Test Team Leader's Name (Sign):	_ Date:/	
Acceptance test proceeding complete (following noneing and notesting if required)		
Acceptance test procedure complete (following repairs and retesting if required)	•	
Test Team Leader's Name (Print):	Life Number:	
	_	
Test Team Leader's Name (Sign):		
<u>Test results reviewed by</u> :		
Safety Section Head's Name (Print):	Life Number:	
Safety Section Head's Name (Sign):	Date://	
Test results accepted by Radiation Safety Committee:		
RSC Member's Name (Print):	Life Number:	
	_	
RSC Member's Name (Sign):	_ Date:/	

1.1 Conduct a visual check on AGS A20 ODH box following Table 1 below $\sqrt{\ }=\ ok, \ x=\ problem$

ODH Box	Verify mechan condn. ok	Verify elec. condn. ok	Crash/ODH boxes only			Verify all	
			Division A		Division B		X's
			Lcd Rdg	Tp2 – Tp4 Vltg	Lcd Rdg	Tp2 – Tp4 Vltg	corrected
ODH1 (encl 6035, AGS A20)			%	V	%	V	

Table 1 – Summary of visual check on ODH box in AGS A20

1.2 Verification of valid calibration of ODH sensors in AGS A20, following Table 2 below $\sqrt{\ }=$ ok, x= problem

ODH sensor	Verify valid calibration	Record calibration date	Verify all x's corrected	Record new calibration date
AGS AS1				

Table 2 - Verification of valid calibration of ODH sensors in AGS A20

1.3	Test of AGS	A20 ODH System	
	VERIFY	At encl 6035, ODH1 Div A □ and Div B □	OFF
	JUMPER	Tp2 and Tp4 on the Div A Pcb in ODH1	
	VERIFY	Div A Strobe □ and Sonalert □	ON
	REMOVE	Jumper Tp2 and Tp4 on the Div A Pcb in ODH1	
	VERIFY	Div A Strobe □ and Sonalert □	OFF
	JUMPER	Tp2 and Tp4 on the Div B Pcb in ODH1	
	VERIFY	Div B Strobe □ and Sonalert □	ON
	REMOVE	Jumper Tp2 and Tp4 on the Div B Pcb in ODH1	
	VERIFY	Div B Strobe □ and Sonalert □	OFF
	FLOW	Helium (or Nitrogen) gas across sensors in AGS AS1	
	RECORD RECORD	Oxygen trip level for Div A Oxygen trip level for Div B	% %
	VERIFY VERIFY	Div A Strobe □ and Sonalert □ Div B Strobe □ and Sonalert □	ON ON
	HALT WAIT	Flow of gas on AGS AS1 For AGS AS1 to clear (level ~ trip-level above)	
	VERIFY VERIFY	Div A Strobe □ and Sonalert □ Div B Strobe □ and Sonalert □	OFF OFF
С	Check fo	or acceptance of Test of AGS A20 ODH System	
		END OF TEST PROCEDURE	
TTL: Sign	n for completion	n of initial testing:	
		Date://_	
TTL: Sign	ı for completic	on of final testing:	
		Date: /	